

Diagram illustrating the state of three disks (Disk 1, Disk 2, Disk 3) after the third move. The disks are represented as vertical columns of 16 cells each, numbered 0 to 15 from top to bottom. The top cell (0) of each disk is highlighted with a thick border.

The state of the disks is as follows:

- Disk 1:** 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
- Disk 2:** 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
- Disk 3:** 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

The formula for the Absolute Value is given as:

$$\text{Absolute Value} = S1 + 16(S1 - S2) + 256(S2 - S3 - 1)$$

Arrows indicate that the highlighted 0s in the top cells of Disk 1, Disk 2, and Disk 3 correspond to the variables S1, S2, and S3 in the formula, respectively.